TROITSKIY, V. S.

"Space results of the Moon Exploration by Radiophysical Methods"

Soviet Papers Presented at Plenary Meetings of Committee on Space Research (COSPAR) and Third International Space Sumposium, Washington, D. C. 23 Apr - 9 May 62

39219

5/141/62/005/002/011/025 E192/E382

9,2540

Logachev, V.A., Pozdeyev, O.D. and Troitskiy, V.S.

AUTHORS: TITLE:

Influence of the flicker effect on the oscillationamplitude fluctuations of a vacuum-tube oscillator

Izvestiya vysshikh uchebnykh zavodeniy, PERIODICAL: Radiofizika, v. 5, no. 2, 1962, 307 - 310

The problem was investigated experimentally by using an oscillator based on a tube, type 6 -1 (6ZhlP), operating TEXT: as a tuned anode system at a frequency of 300 kc/s. amplitude of the oscillations could be varied continuously by changing the coupling coefficient between the tuned circuit and the grid circuit of the tube. The oscillator was provided with an amplitude detector and a spectrum analyser for measuring the amplitude fluctuations between 1 and 100 c.p.s. The output voltage of the analyser was measured by a vacuum-tube voltmeter having a time constant of 5 sec. It was found that the dependence of the spectral density of the amplitude fluctuations on frequency is in the form $w_a(f) = Af$

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CIA-RDP86-00513R001756720005-8" APPROVED FOR RELEASE: 03/14/2001

Influence of the

S/141/62/005/002/011/025 E192/E382

the quantity A is dependent only on the amplitude of the oscillations and the parameters of the oscillator tube. The amplitude-fluctuation spectrum $\,w_{\rm a}\,$ is thus a function of the

same type as the flicker-noise spectrum w_{γ} . The above results

agree with the theoretical findings of V.S. Troitskiy (Izv. vyssh. uch. zav. - Radiofizika, v.l, 1, 21, 1958 and v.2, 574, 1959). The theory and experiments are in good agreement at small values of the oscillation amplitude and, in particular, for tubes having high flicker noise. On the other hand, the theory does not agree with the experiment at large oscillation amplitudes, which may be due to the fact that the dynamic theory of V.S. Troitskiy is not valid for this case. There are 4 figures.

ASSOCIATION:

Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete (Scientific Research Radiophysics Institute of Gor'kiy University)

SUBMITTED: August 29, 1961

Card 2/2

TROITSKIY, V.S.

Effect of a subsurface heat flow on lunar radio emission. Izv. vys. ucheb. zav; radiofiz. 5 no.3:602-603 '62. (MIRA 15:7)

1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete.

(Moon-Temperature and radiation)

TROITSKIY, V.S.; TSEYTLIN, N.M.

Use of an absolute radio astronomy method for calibrating small antenna systems at microwave frequencies. Izv. vys. ucheb. zav.; radiofiz. 5 no.4:623-628 '62. (MIRA 16:7)

1. Nauchno-issledovatel'sky radiofizicheskiy institut pri Gor'kovskom universitetę.

(Radio astronomy) (Microwave measurements)

(Antennas (Electronics))

SU SHI-VEN'; SYAO GUAN-TSZYA [Hsiao Kuang-chia]; U KHUAY-VEY; TUN-VU;
U TSZIN'-TSI [Wu Chin-ch'i]; TROITSKIY, V.S.; RAKHLIN, V.L.;
STREZHNEVA, K.M.; ZELINSKAYA, M.R.

Observation of the solar eclipse of February 15, 1961 on the 3.2 cm.
wavelength. Izv. vys. ucheb. zav.; radiofiz. 5 no.4:807-810 '62.
(MIRA 16:7)
1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri
Gor'kovskom universitete.
(Eclipses, Solar) (Radio astronomy)

KAMENSKAYA, S. A.; SEMENOV, B. I.; TROITSKIY, V. S.; PLECHKOV, V. M.

Results of precision measurements of lurar radio emission at a wavelength of 1.6 cm. Izv. vys. ucheb. zav.; radiofiz. 5 no.5: 882-884 '62.

1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete.

(Moon-Observations) (Radio astronomy)

TROITSKIY, V. S.

New method for determining the density of lunar surface rocks. Izv. vys. ucheb. zav.; radiofiz. 5 no.5:885-891 162. (MIRA 15:10)

1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete.

(Moon-Surface)

CIA-RDP86-00513R001756720005-8" APPROVED FOR RELEASE: 03/14/2001

37070 \$/057/62/032/004/016/017 B116/B102

11.7430

AUTHOR: _T

Troitskiy, V. S.

TITLE:

Directivity of a molecular beam formed by the outflow of gas

from a channel

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 4, 1962, 488-502

Card 1/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720005-8"

5/057/62/032/004/016/017 B116/B102

Directivity of a molecular beam ...

 $^{\wedge}$ o min = L/2. This is the condition for a marked widening of the channel. (2) If the diagram is determined by Leff, a marked widening of the channel will begin at $L = L_{eff}$. (3) For a pipe of length L_1 with $L_{\text{eff}} \ll L_1$, the intensity of outflow from this pipe can be compared with the maximum outflow intensity from a pipe with L2 = Leff. The two intensities are virtually equal. (4) A general relation can be obtained between diagram width and gas pressure in containers for channels of any length at given a = const. a times b is the channel cross section. The diagram obtained agrees with K. G. Günther's experimental diagram (Zs. f. Angew. Phys., 9, no. 11, 550, 1957). (5) A comparison of the intensity of outflow from a single circular pipe (diameter D, length L) with that of outflow from a set of small pipes (diameter d, length 1) with equal cross section and equal diagram (i.e., D/L = d/1) shows that the maximum intensity of outflowest constant pressure in the container does not vary. Shortening the pipe length by the L/1 = = D/d-fold, however, allows the gas density n_0 to be increased by as

Card 2/4

CIA-RDP86-00513R001756720005-8" APPROVED FOR RELEASE: 03/14/2001

Directivity of a molecular beam ...

S/057/62/032/004/016/017 B116/B102

many times without changing the diagram. The rise in intensity is limited by collisions of molecules in the beam, but this was not considered here (V. S. Troitskiy, ZhETF, 8, 1961). (6) The production of a molecular beam, less than $\triangle\theta = \triangle\theta_0 < 0.6 \sim 35^\circ$ wide, with pipes is much more convenient than with stops. θ is the angle of inclination of the molecular beam to the pipe axis. θ are tan (a/L). The present theory explains the principal rules governing the formation of a molecular beam. The greatest difficulty encountered in calculating the directivity is the fact that the diagram is entirely determined by the conditions prevailing at the pipe end, where the gas is not in equilibrium. It is recommended that the theory be further improved, and that the condition at the pipe end be taken into account. There are 8 figures. The most important English-language reference reads as follows: J. A. Giordmaine a. T. C. Wang. J. of Appl. Phys., 31, no. 3,

Card 3/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720005-8"

Directivity of a molecular beam ...

S/057/62/032/004/016/017

ASSOCIATION: Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom gosudarstvennom universitete im. N. I. Lobachevskogo (Scientific Research Institute of Radiophysics at the Gor'kiy State University imeni

N. I. Lobachevskiy)

SUBMITTED:

September 26, 1960 (initially) May 12, 1961 (after revision)

Card 4/4

The nature and the ...

33424 S/033/62/039/001/008/013 E032/E514

the two-layer model. The open circles and the squares were taken from the literature. Inspection of these curves shows that the experimental results cannot be regarded as confirming the two-layer model on which there is a thin non-thermally conducting top layer covering derse lunar material and transparent to radio waves. The author recommends that this model should be rejected. The dependence of lunar radio emission on wavelength is said to indicate unambiguously the quasi-uniform nature of the surface layer, at least to a depth of 1 m. In earlier papers (Ref. 4: Proc. of the fifth conference on problems of comogony and Ref. 10) the author et al. showed that the ratio of the depth of penetration of the electromagnetic wave to the depth of penetration of the thermal wave is equal to 21, where 1 is the wavelength. This relation is now confirmed again in a wider wavelength range. It is estimated from this that the dielectric constant of the surface layer is of the order of lm5 and the corresponding density is 0.4-0.5 g/cm³. On the other hand $\gamma = (k \, \ell \, c)^{1/2}$ is estimated to be of the order of 1000 (k - thermal conductivity, ? - density, c specific heat). The general conclusion is that the chemical Card 2AG

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720005-8"

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The nature and the ...

33424 5/033/62/039/001/008/013 E032/E514

composition of the lunar surface material is similar to terrestrial rocks and that lunar rocks cannot contain any appreciable amounts of meteoritic iron. All evidence appears to suggest that the surface layer is in the form of a porous grainy material rather than dust. This would be consistent with the low density and low thermal conductivity. There are 3 figures and 20 references: 14 Soviet-bloc and 6 non-Soviet-bloc. four latest English-language references read as follows: Ref.2: J.C.Jaeger, Austral.J. Phys., 6, 10, 1953; Ref.3: J. H. Piddington, H.C.Minnet, Austral. J. Scient. Res., 4A, 459, 1951; Ref.8: T. Cold, Observatory, 76, 71, 1956; Ref.14: J. E. Gibson, Proc. I.R.E., 46, 280, 1958.

ASSOCIATION: Radiofizicheskiy in-t Gor'kovskogo gos. universiteta im. N. I. Lobachevskogo

(Radiophysics Institute of the Gor'kiy State

University imeni N. I. Lobachevskiy)

SUBMITTED:

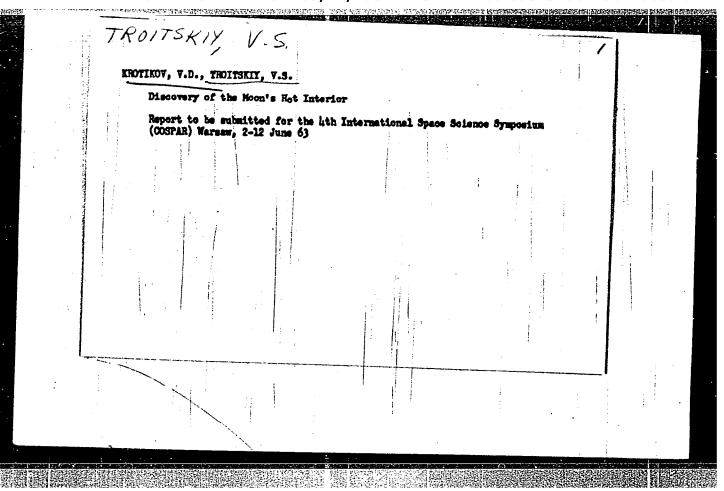
February 17, 1961

Card 344

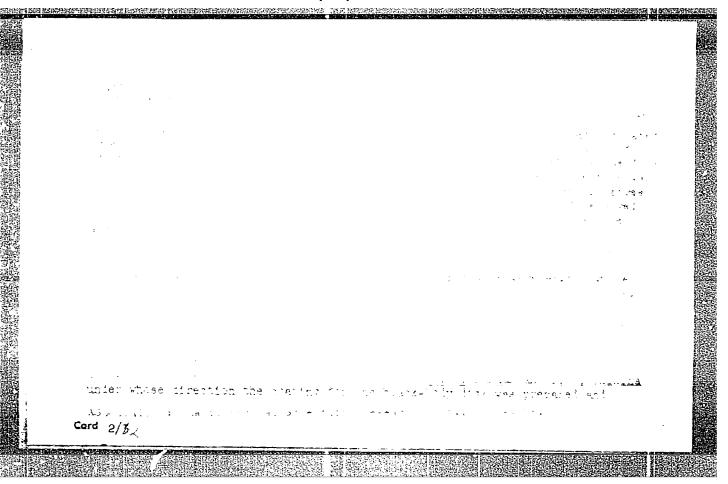
APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720005-8"

Radiation properties of the moon at centimeter wavelengths.
Astron.zhur. 39 no.6:1089-1093 N-D '62. (MIRA 15:11)

1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universiteta. (Moon)
(Radio astronomy)



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TOPIC TA	38: Cas-A, Cyg-A n temperature, an	., Ten-A, ratempe	ediation so erature, bl	urce, radio ack body	source,	cosmic sou	ince,
radiatio ABSTRACT recorded	OS: Cas-A, Cyg-A n temperature, an : Test results a in the autumn of ecimeter band. A	tenna tempe ind receiving 1962 from	erature, bl ng equipmen discrete s parabolic a	ack body t are descr ources in C	ibed for as-A, Cys	radio rece -A, and Ta th was desi	eption m=A gned
radiatio ABSTRACT recorded in the d	n temperature, an : Test results a in the autumn of	tenna tempe ind receiving 1962 from n b-meter	erature, bi ng equipmen discrete s parabolic a	ack body t are descr ources in C ntenna was	ibed for as-A, Cys	radio rece S-A, and Ta th was desi	eption m=A .gned -a



ACCESSION NR: AP3004852

6/0141/63/006/003/0631/0633

AUTHOR: Troitskiy, V. S.

TIPLE: On the nature of material in lunar seas and continents

75 74

SOURCE: IVUZ. Radiofizika, v. 6, no. 3, 1963, 631-633

TOPIC TAGS: moon, moon surface, lunar surface, lunar material, lunar emission, lunar radiation, radio emission, radio brightness, brightness temperature

ABSTRACT: The hypothesis that the lunar seas and continents are made up of appreciably different materials is questioned. According to one view, that the "seas" are of basaltic rock and the "continents" of granitic rock, it follows that a measurable difference should be detectable in characteristics of the radiation temperatures from these surfaces, such as variations in amplitude or phase shift in the time-varying components of the received emission. It is asserted that the detection of amplitude rather than phase variations is at present more trustworthy because of limitations to measurement accuracy and that the greatest sensitivity to such a differential should be found in the 1- to 3-cm wavelengths. However, existing radio brightness data in the 0.4-,

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ACCESSION NR: AP3004852

0.0-, and it can wavelengths are cited which show variations in intensity of not more than 6 or 7% between sea and continent regions, and it is held possible that even this variation is due to measurement error. It is concluded that on the basis of radiation data to date no significant difference has been detected between these lunar regions; to get more accurate data on lunar surface properties, more refined methods are necessary for detecting phase behavior of radiated energy. Orig. art. has: 2 formulas.

ASSOCIATION: Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom Universitete (Radiophysical Scientific Research Institute, Gor'kiy University)

SUBMITITED: 22Feb63

DATE ACQ: 27Aug63

ENCL: 00

SUB CODE: AS

NO REF SOV: 006

OTHER: 002

Card 2/2

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	· :	
1093 TA	.38: Moon, heat flux, Moon radiation	
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ten peratul. 1.3 x 1276 high as the activity of	The Processian measurance are lunar radio emission at 2.4.1 and the was roughly were made by the Radiophysics Institute iGor kinds of the was found to grow with the was 18 to	.a.e
ten peratul. 1.3 x 1276 high as the activity of	The many lengths were made by the Radiophysics Institute (Gor kind) and the first the state of the was found to grow with the walk at 30 cm. 137K at 35 cm. The offered explanation is that the regrows with increasing Moon depth. The thermal flux density, called cm ⁻² , sec ⁻¹ , calculated from the above data is about 5 times is existing theoretical evaluations which is explained by the high radiumar rock. Orig. art. has: no figure, formula, or table.	.a.e

S/057/63/033/004/020/021 B117/B238

AUTHORS:

Ivanov, B. S., and Troitskiy, V. S.

TITLE:

Problem of the shaping of the directional characteristic

of molecular beams

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 33, no. 4, 1963, 494-499.

TEXT: Directional characteristics were calculated on the basis of the theory of beam formation (ZhTF, 32, no. 4, 1962). Clausing's equation for the distribution density of the molecules at the walls of short tubes was extended by studying a tube connected to a gas container such that the free path λ_0 in the tube is considerably greater than the linear dimensions of the source (λ_0) L). The following expression was derived for the normalized density $\overline{\nu}(s) \in \nu(s)/\nu_0$ of collisions between the molecules and the wall:

 $F(s) = \int_{0}^{t_{s}} P(t) \left[1 - \frac{|t-s|}{\sqrt{1+|t-s|^{2}}} - \frac{|t-s|}{2\sqrt{1+|t-s|^{2}}} \right] dt + \frac{0.5+s^{2}}{\sqrt{1+s^{2}}} - s.$ (4)

s/057/63/033/004/020/021 B117/3238

Problem of the shaping of the ...

where $t = z/2r_0$ and $t_0 = L/2r_0 = L/d$. Since a strictly analytical solution of this equation met with mathematical difficulties, it was carried out on an electronic computor for a series of parameters. The solution was non-trivial, since the function $\overline{\nu}\left(s\right)$ proved to be linear for all parameters to, which in no way satisfies the equation analytically. Furthermore, the directional characteristic of a round tube was calculated

for the more real case $\lambda_0 \gg L$, the relation $\nu(x) = (n\overline{\nu}/4)$ being taken

into account. It was assumed here that the effect of the mutual collisions of the particles cannot be neglected, but is nevertheless to small to change the density distribution u(x) very much in comparison to the limiting case $\lambda_0 \gg L$. The calculations carried out on an

electronic computer afforded a satisfactory agreement with the experimental results. This shows that the calculations carried out reflect the conditions for the formation of a molecular beam. The equations derived can be used in conjunction with the linear r litionship $n(\mathbf{x})$ to calculate the lineational characteristics in terms of Mayor parameters of course on visa pressure. There are toftgures.

Jard 2/3

CIA-RDP86-00513R001756720005-8 "APPROVED FOR RELEASE: 03/14/2001

s/057/63/033/004/020/021 B117/B238 Problem of the shaping of the ...

ASSOCIATION: Gor'kovskiy gosudarstvennyy universitet im. N. I.

Lobachevskogo

(Gor'kiy State University imeni N. I. Lobachevskiy)

January 22, 1962 (initially) SUBMITTED:

May 15, 1962 (after revision)

Card 3/3

5/033/63/040/001/002/016 E032/E314

Lazarevskiy, V.S., Stankevich, K.S. and Troitskiy, V.S. AUTHORS:

Absolute precision measurements of the flux density of the 3.2 cm radiation from the Crab and Orion nebulae TITLE:

Astronomicheskiy zhurnal, v. 40, no. 1, 1963, PERIODICAL: 12 - 16

The flux density due to the discrete source Tau A and the Orion nebula was determined absolutely, using the method TEXT: described by one of the authors et al (Izv. vyssh. uch.zav., Radiofizika, 4, no. 6, 1961), in which the received signal is compared with the thermal radio emission of a perfectly black disc placed in the Fraunhofer zone of the antenna. A parabolic antenna, 4 m in diameter, was employed. The beamwidth at halfpower points was 37' and the real sensitivity of the radiometer at a time constant of 64 sec was 0.2 K. Measurements on the Tau A radiation were carried out at different parallactic angles. was assumed that the degree of polarization was 7% and that the position angle was 148° . Since the reception was carried out with horizontal polarization, the observations had to be reduced in Card 1/2

CIA-RDP86-00513R001756720005-8" APPROVED FOR RELEASE: 03/14/2001

Absolute precision

S/033/63/040/001/002/016' E032/E314

accordance with these figures to obtain the total flux density24 As a result of 40 determinations, an average figure of 5.6 x 10 m cps was obtained for Tau A with an estimated r.m.s. error of 5%. The result for the central part of the Orion nebula (6' diameter) was 4.5 x 10 Wm cps with an estimated r.m.s. error of 7%. The latter result was obtained using the brightness distribution reported by Yu.W. Pariyskiy (Astron.zh., 38, 798, 1961). If the distance of the Orion nebula is assumed to be 450 ps and the angular diameter is 201, then the average electron density turns out to be of the order of 3000. The electron density at the centre of the nebula is estimated as 8 000 cm -3. It is noted that previous measurements of the flux density were less accurate (15-20%) as compared with the results now reported. There are I figure and I table.

ASSOCIATION:

Radiofizicheskiy in-t Gor'kovskogo gosudarstvennogo universiteta (Radiophysics Institute of Gor'kiy

State University)

SUBMITTED:

December 7, 1961

Card 2/2

KROTIKOV, V. D.; TROITSKIY, V. S.

Thermal conductivity of lunar materials according to the data of precision measurements of lunar radio emission. Astron. zhur. 40 no.1:158-160 J-F 163. (MIRA 16:1)

1. Radiofizicheskiy institut Gor¹kovskogo gosudarstvennogo universiteta im. N. I. Lobachevskogo.

(Moon-Surface) (Radio astronomy)

KROTIKOV, V.D.; TROITSKIY, V.S.

Detection of a hot flow from the moon's interior. Astron.zhur.
40 no.6:1076-1082 N-D *63. (MIRA 16:12)

1. Radiofizicheskiy institut Gor'kovskogo gosudarstvennogo universiteta.

Radio-frequency radiation from and nature of the moon. Usp. fiz. (MIRA 17:1) nauk 81 no.4:589-639 D '63.

ACCESSION NR: AP4039720 S/0141/64/007/002/0208/0214

AUTHOR: Troitskiy, V. S.

TITLE: Contribution to the theory of radio emission from Venus and from Mars

SOURCE: IVUZ. Radiofizika, v. 7, no. 2, 1964, 208-214

TOPIC TAGS: Mars, Venus, radio astronomy, radar observation, planetary radio emission

ABSTRACT: Inasmuch as most earlier investigations of the radio emission from these planets are confined to the media above their surfaces rather than the surfaces themselves (which may or may not be solid), the author presents a phenomenological analysis of the phase dependence of the surface radio emission without using a specific model for the atmosphere of the planet, but assuming that the surface is subject to a specified temperature regime. The theory

Card 1/2

ACCESSION NR: AP4039720

employed is practically the same as developed by the author for radio emission from the moon (Astron. zh. v. 31, 511, 1954), with allowance for the relative motion of the observer and the planet. Comparison of the theoretical results with the experimental data on the phase dependence of the radio emission from Venus and with radar data on the reflection coefficient yields an estimate of 2--10 days for the period of revolution of Venus, assuming the rotation of the planet to be in a direction opposite to the motion of the sun. More accurate data could be obtained by measuring the phase variation of the radio emission from the planet over a wide range of wavelengths. Although the calculations were made for Venus, they are also applicable to Mars. Orig. art. has: 1 figure and 10 formulas.

ASSOCIATION: None

SUBMITTED: 05Ju163

DATE ACQ: 19Jun64

ENCL: 00

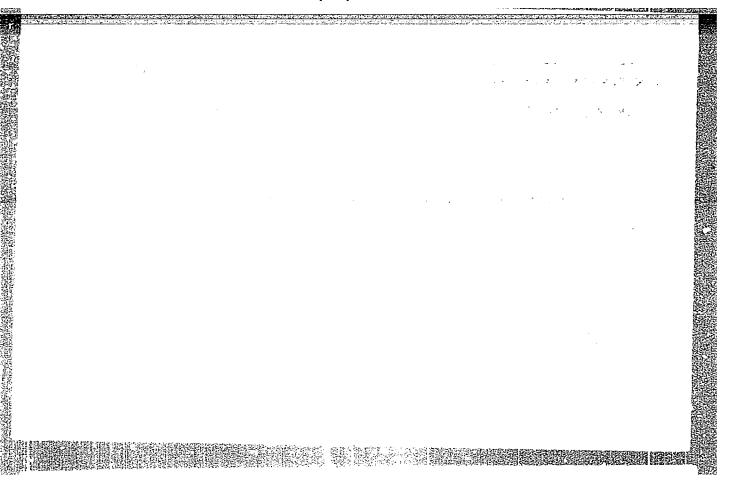
SUB CODE: AA

NR REF SOV: 009

OTHER: 003

Card

2/2



ACCESSION NR: AP4025904

s/0030/64/000/002/0033/0038

AUTHOR: Troitskiy, V. S. (Doctor of physico-mathematical sciences)

TITLE: Radio waves and the nature of the moon

SOURCE: AN SSSR. Vestnik, no. 2, 1964, 33-38

TOPIC TAGS: moon, radiometric analysis, radio waves, lunar substance, thermal waves, radio emission layer, radioactive decomposition layer, lunar topography

ABSTRACT: The results of the first attempt to study the moon by radio are presented. In the SSSR the first reception of lunar radio waves was obtained in 1951 by S. E. Khaikin at the 3-cm wave. This thermal radiation was emitted by the moon's upper mantle, the temperature of which was determined by the solar radiation flux, duration of a lunar day, and, to a certain extent, by the thermal qualities of the lunar substance. According to its behavior, the radiation proceeded not only from the lunar surface but also from a depth below the temperature variations. An attempt was made to evaluate the thickness of this radioemission layer by the wave amplitude spectrum. The nature of the upper layer was studied mathematically in models representing different distributions of thermal properties in the mantle.

ACCESSION NR: AP4025904

According to the nature of wave amplitude variation, the properties of this layer were approximately homogeneous down to the depth of the penetration of the 3-cm wave. It was concluded on the basis of electromagnetic wave attenuation that the lunar substance was similar in composition to the silicate rocks with a known heat capacity. Data on density and heat conductivity of the lunar rocks indicated their 20-30 m thick overlying solid rock. The growth of radio temperature with wave length revealed a considerable flux of heat from the depth of the moon toward the surface. Its estimated value was 1.5 x 10¹⁹ cal/year. Recalculated in terms of than that of the earth. One of the explanations referred this phenomenon to the decomposition of radioactive elements accumulated mainly in a layer 60-70 km thick. Served gas emissions (N. A. Kozyrev) and may be correlated with the volcanic theory

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 08Apr64

ENCL: 00

Card 2/32

\$/0033/64/041/001/0104/0109

ACCESSION NR: AP4017620

AUTHOR: Troitskiy, V. S.

TITLE: Some results of an investigation of the Moon by radiophysical methods

SOURCE: Astronomicheskiy zhurnal, v. 41, no. 1, 1964, 104-109

TOPIC TAGS: Moon, radioastronomy, radiophysics, geological structure, temperature, artificial moon method, density, dielectric

ABSTRACT: The article is actually a short summary of Moon investigation work, carried out in the NIRFI and published, in part, in various scientific journals. Noting that the accumulated data provide a rather definite picture of the physical conditions on the Moon, the author comments that a complete exposition of this picture is as yet nowhere to be found. This fact has led the author to outline the general picture of established physical conditions on the Moon, on the basis of the most recent work carried out at the NIRFI during the 1961-1962 period. The article most recent work carried out at the NIRFI during the 1961-1962 period. The article most recent work carried out at the NIRFI during the 1961-1962 period. The Moon, itself consists of six sections: 1) Structure of the upper rock layer of the Moon, of the Moon. Method. Results; 3) Mean-spherical radiation capacity of the Moon, dielectric constant and density of the matter of the upper cover; 4) Radio radiation determination of the thermal parameters of the upper layer; 5) Determination Card 1/2

ACCESSION NR: AP4017620

by thermal parameters of the structure and density of the upper cover; 6) Dielectric properties of the upper layer matter. Mineralogical composition. The quasihomogeneity of the properties of the upper one-meter layer of the Moon has been established from measurements of radio emission in a wide range of wavelengths (0.4-3.2 cm). Precise measurements of radio emission at 1.6, 3.2 and 10 cm, made by the "artificial moon method", permitted the determination of the dielectric constant of the layer $\mathcal{E} = 1.5 \pm 0.3$, its density $P = 0.5 \pm 0.2$ g cm⁻³ and $Y = (k/c)^{-1/2} = 350 \pm 75$. It is shown that Y is a function only of P and the structure; the value of Y obtained points to porous structure at P = 0.4 g cm⁻³ and to dry substances at P = 0.8 g cm⁻³. A temperature increase with depth in the order of 1.5 degrees per meter and a thermal flow from the interior in the order of 1.10⁻⁶ cal cm⁻² sec⁻¹ are found. At centimeter wavelengths, the lunar material has a loss angle per unit density equal to $5 \cdot 10^{-3}$ radian. This corresponds to material of the type of gabbro, diorite, granite and others. The derived values of Y and P are evidence in favor of a solid porous state of the layer, while tending to reject the hypothesis of a dust layer. Orig. art. has: 9 formulas.

ASSOCIATION: Radiofizicheskiy institut Gor'kovskogo gos. universiteta (Radio-Physics Institute, Gorkiy State University)

SUBMITTED: 22Dec62

DATE ACQ:" 18Mar64

ENCL: 00

Card 2/2

SUB CODE: AS

NO REF SOV: 017

OTHER: 00

ACCESSION NR: AP4040842

S/0033/64/041/003/0446/0451

AUTHOR: Troitskiy, V. S.; Tsey' Lin, N. H.; Porfir'yev, V. A.

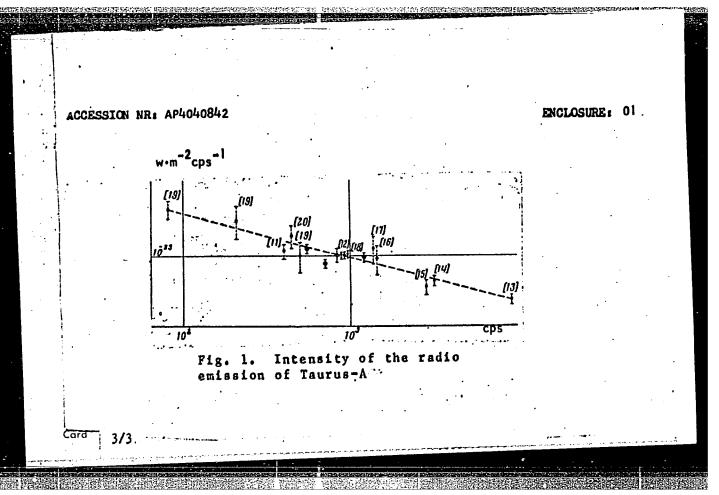
TITLE: Results of measurements of the intensity of radio emission of the source Taurus-A in the decimeter wavelength range

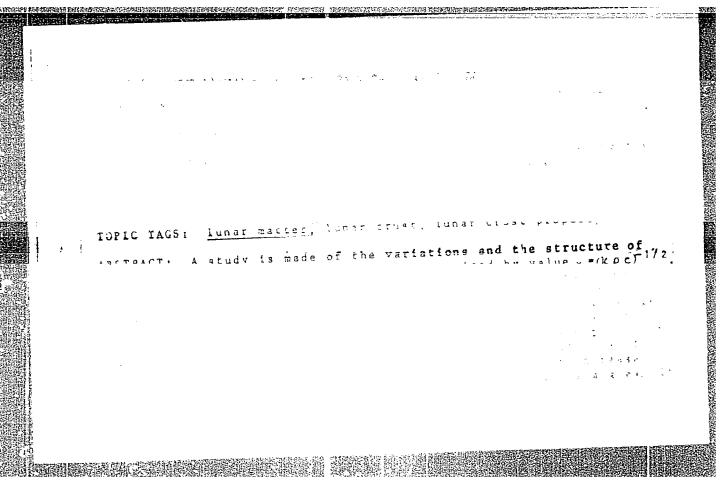
SOURCE: Astronomicheskiy zhurnal, v. 41, no. 3, 1964, 446-451

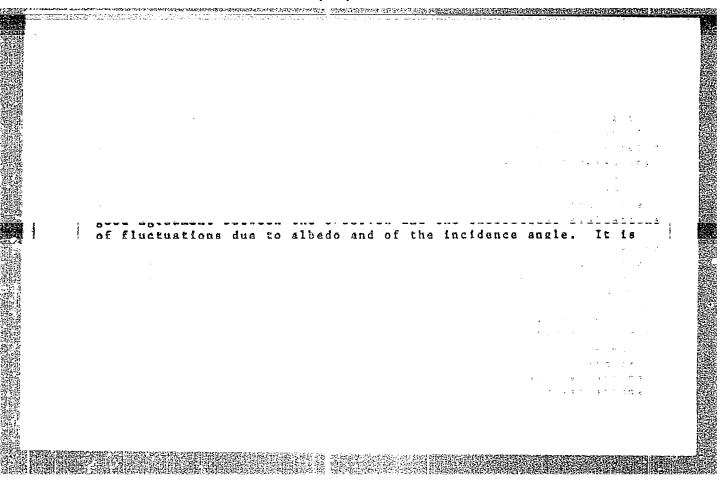
TOPIC TAGS: astronomy, radio astronomy, Taurus-A, radio emission, artificial satcllite

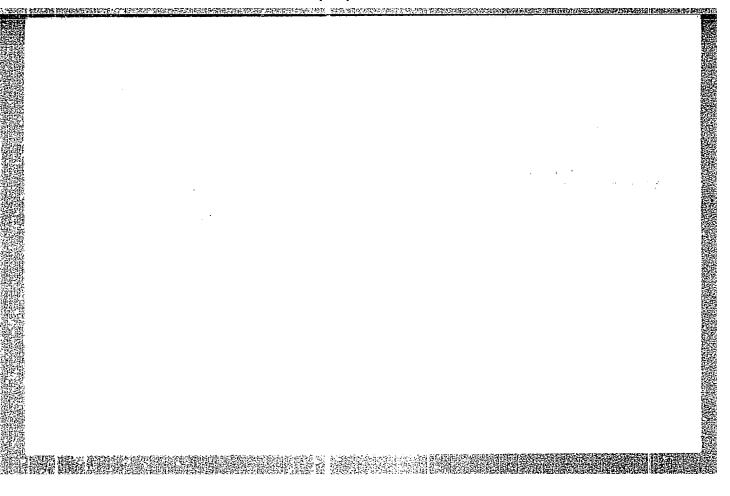
ABSTRACT: Measurements of the intensity of the radio emission from the discrete source Taurus-A were made in July-September 1962 at a number of wavelengths in the decimeter range: 25.1, 34.25, 35.9, 42.4 and 54.4 cm. The measurements were made with a parabolic antenna with an aperture diameter D = 8 meters. The antenna parameters are given in a table. The measurement method involved the comparison of the received radiation of the source and the standard (reference) radiation of an artificial moon, a metal disk 3.8 meters in diameter, covered by an absorbing material with a known temperature. The reference signal was the difference in the antenna temperatures caused by radiation of the disk and radiation of the region of the sky shielded by the disk. This difference is measured by the successive movement of the disk to and away from the main lobe of the diagram. The source was

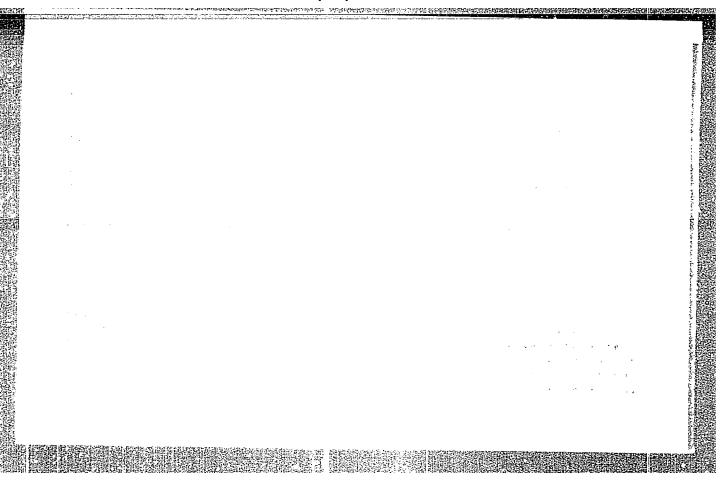
of the radio emission of Taut data are plotted as circles; comparison. A straight line ponding to a spectral index of α = -0.25. For further incre- be repeated in the considered the intensity of radio emiss λ > 60 cm. Orig. art. has:	from 35 to 60°. The measured vis-A are shown in Fig. 1 of the data obtained by various other can be drawn through the experience of the intensity of the radio emplease in accuracy it is proposed drange and that a detailed inversion in the range 10 cm \$\lambda \leq 25 cm 6 formulas, 1 figure, and 3 tables in the control of the radio emplease in accuracy it is proposed at the control of the radio emplease in the range 10 cm \$\leq \leq 25 cm 6 formulas, 1 figure, and 3 tables in the control of the c	authors are shown for mental points, corresission of Taurus-A of that the measurements stigation be made of m and at wavelengths es.	
imeni N. N. Lobachevskogo (R	adio Physics Institute, Gorky S	tate University)	:
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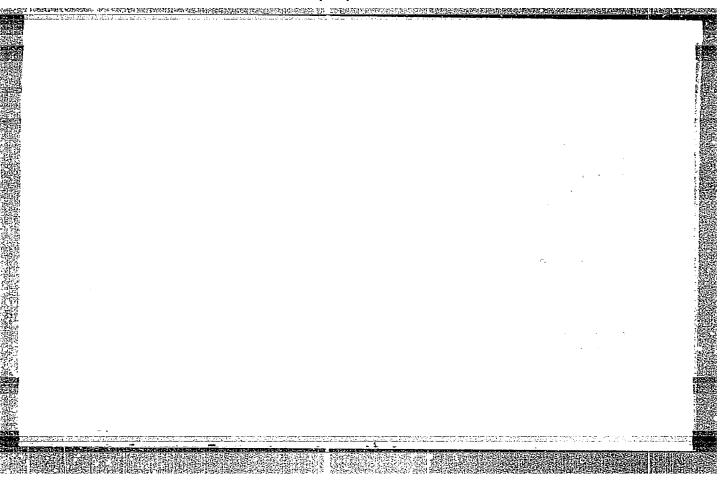


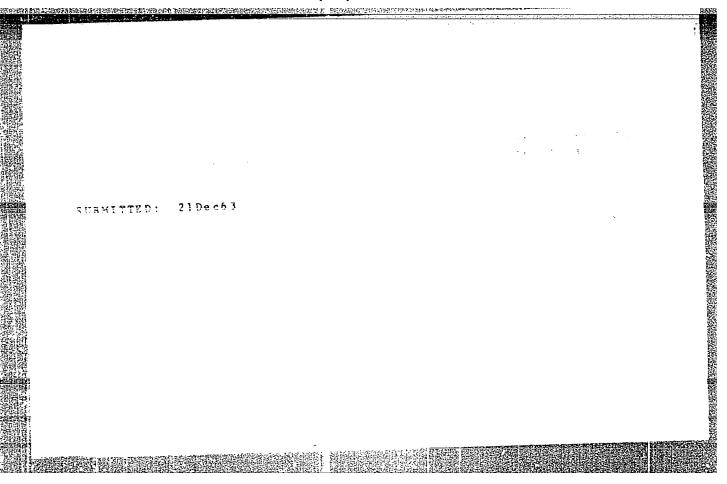


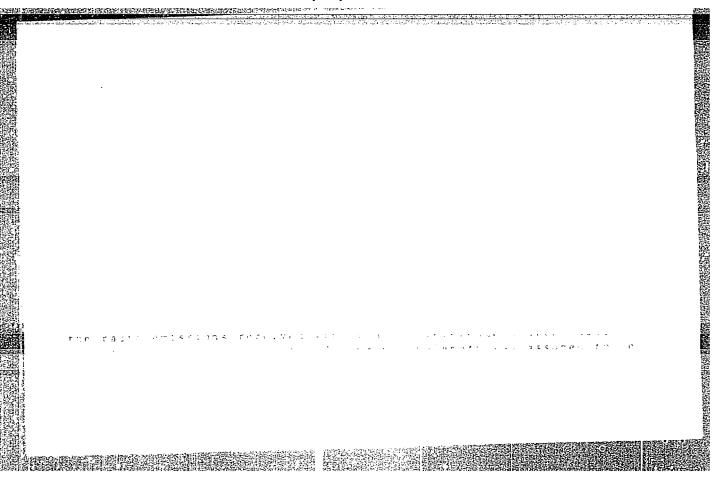


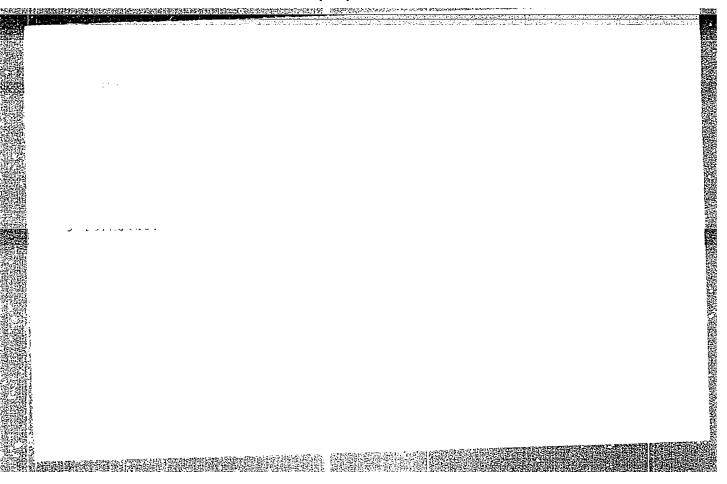












ACC NR AP602696

SOURCE COLE: UR/0033/65/042/006/1296/1309

AUTHOR: Troitskiy, V. S.

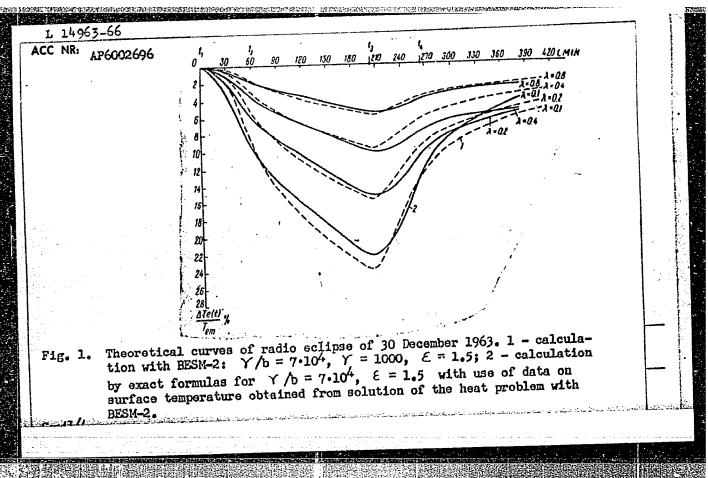
ORG: Radiophysics Institute, Gor'ky State University (Radiofizieheskiy institut)
Gor'kovskogo gos. universiteta)

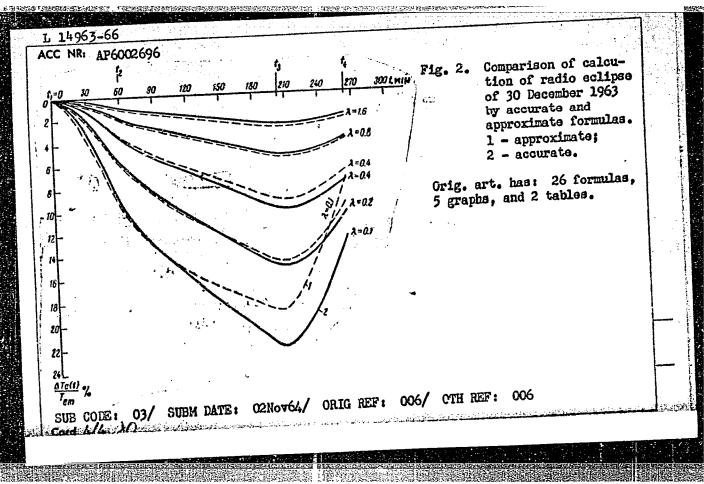
TITLE: Radio emission of the eclipsed moon 12/5 SOURCE: Astronomicheskiy zhurnal, v. 42, no. 6, 1965, 1296-1309

TOPIC TAGS: eclipse, lunar eclipse, lunar radio emission, lunar temperature dielectric constant, specific heat, computer / BESM-2 computer

ABSTRACT: The radio emission of the eclipsed moon is calculated theoretically under the assumption of uniform properties of the upper mantle to a depth where temperature fluctuations are possible during eclipses. Formulas are obtained for calculating the radio-emission intensity of the eclipsed moon $\frac{T_h(t,q_n)}{1-R} = [T_h + a_h(t-t_h) + a_h(t-t_n) z_n^{-1}]\{1-e^{z_n}[1-\Phi(z_n)]\} - \frac{2}{\sqrt{\pi}} a_h(t-t_n) z_n^{-1} + a_h(t-t_n) z^{-1}[1-\Phi(z_n)]\}$ (k=1...4, n=k, k+1).UDC: 523.164.38

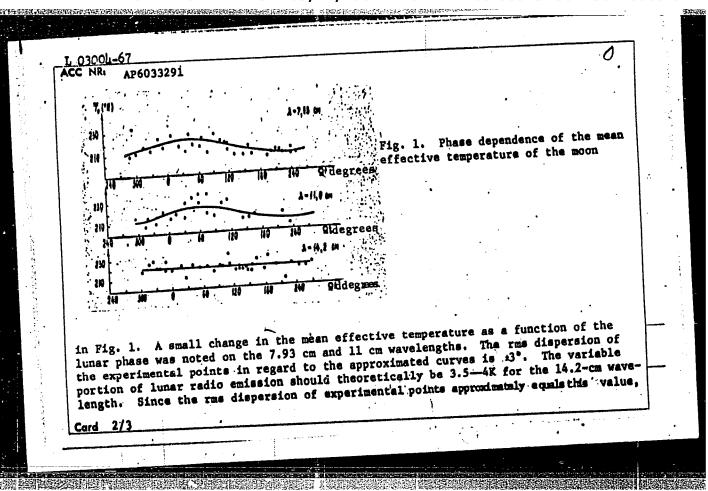
where I	is the surf	ace temperat	ure, t tim	e, and z _n	$= \frac{\kappa}{2q_n} \cdot F$	ormulas for	the in-	
	ol phases of ne obtained e							
the mad	ne obtained e calculations chine and ana relative de	lytic calcul	ations (F1)	g. I anu r o tamparat	are of a lu	nar-eurface	element	4
is pro	portional to	Ke, where	X is the	demping co	efficient c	f an electro	magnetio .	
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	ACC NAI APOUSSESS N. B.: B	
	AUTHOR: Alekseyev, V. A.; Krotikov, V. D.; Matveyev, Yu. G.; Mikhaylova, N. B.; Porfir'yev, V. A.; Ryazanov, V. P.; Sergeyeva, A. I.; Strezhneva, K. M.; Troitskiy.	
	Porfir vev. V. A., Kyazanov,	
3	Camible liniversity (naucial)	
	ORG: Scientific Research Institute of Radiophysics, Gor kly Shayersitete) issledovatel skiy radiofizicheskiy institut pri Gor kovskom universitete)	•
	issledovatel skiy radiofizicheskiy institut pro- issledovatel skiy radiofizicheskiy in	
	TITLE: Results of measurements of range 11.0, 14.2, and 20.8 cm	
	SOURCE: IVUZ. Radiofizika, v. 9, no. 5, 1966, 1030-1032	
	SOURCE: IVUZ. Radiotizika, V. J. LUNAR LUNAR ENVIRONMENT	İ.
	TOPIC TAGS: radio astronomy, parabolic antenna, radio emission , LUNAR ENVIRONMENT	-
	ABSTRACT: The mean effective temperature of the moon was measured in 1964—1965 ABSTRACT: The mean effective temperature of the moon was measured in 1964—1965 ABSTRACT: The mean effective temperature of the moon was measured in 1964—1965	١
	ABSTRACT: The mean effective temperature of the moon was measured at Zimenki Station on the 7.93,11.0, 14.2, and 20.8 cm wavelengths. The basic at Zimenki Station on the 7.93,11.0, 14.2, and 20.8 cm wavelengths in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment included a radio telescope antenna 4 m in diameter and two measuring equipment in diameter and two measuring equipment in diameter and t	
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	sensitivity threshold of the moon was compared the disk was	
	constant of 16 sec. The radio emission of the moon was compared with the disk was emission of a disk (diameter, 380 cm) coated with absorbing material. The disk was emission of a disk (diameter, 380 cm) coated with absorbing material. The results of placed in the Fraunhofer region, 230 m from the telescope aperture. The results of placed in the Fraunhofer region, 230 m from the telescope aperture are shown	-
	emission of a disk (diameter, 230 m from the telescope aperture. The results of the Fraunhofer region, 230 m from the telescope aperture. The results of the phase dependence of the moon's effective temperature are shown measurements of the phase dependence of the moon's effective temperature.	
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•	ACC NR: AP6033291 Fig. 1. shows only the value of the constant component of the mean effective temperature which was 221K. Measurements on the 20.8-cm wavelength were conducted during the partial phase cycle. The constant component of the mean effective temperature for partial phase cycle. The constant component of the mean effective temperature for this wavelength was 225K. Error did not exceed 40.5%. Orig. art. has: 1 formula, 1 table, and 1 figure.									the for mula,	
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TROITSKIY, V.S.

Radio emission from the eclipsed moon. Astron. zhur. 42 no.6: 1296-1309 N-D 165.

1. Radiofizicheskiy institut Gor'kovskogo gosudarstvennogo universiteta. Submitted Nevember 2, 1964.

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KAMENSKAYA, S.A.; KISLYAKOV, A.G.; KROTIKOV, V.D.; NAUMOV, A.I.; NIKONOV, V.N.; PROFIR'YEV, V.A.; PLECHKOV, V.M.; STREZHNEVA, K.M.; TROITSKIY, V.S.; FEDOSEYEV, L.I.; LUBYAKO, L.V.; SOROKINA, E.P. Microwave observation of lunar radio eclipes. Izv. vys. ucheb. zav.; radiofiz. 8 no.2:219-228 '65. (MIRA 18:6)

1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete.

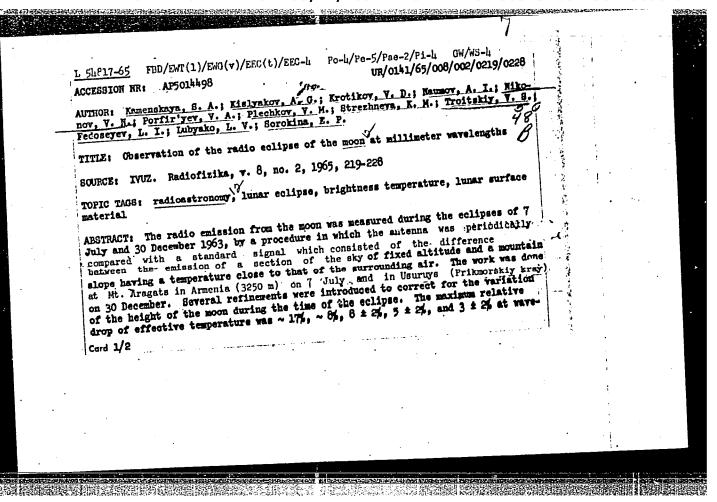
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TROITSKIY, V.S.

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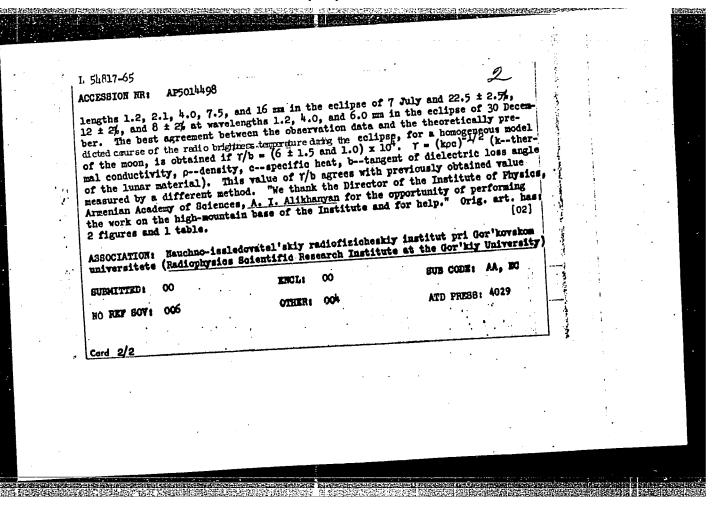
Isv. Kom. po fiz. plan. no.4320 hg 163. (MIRA 18:5)

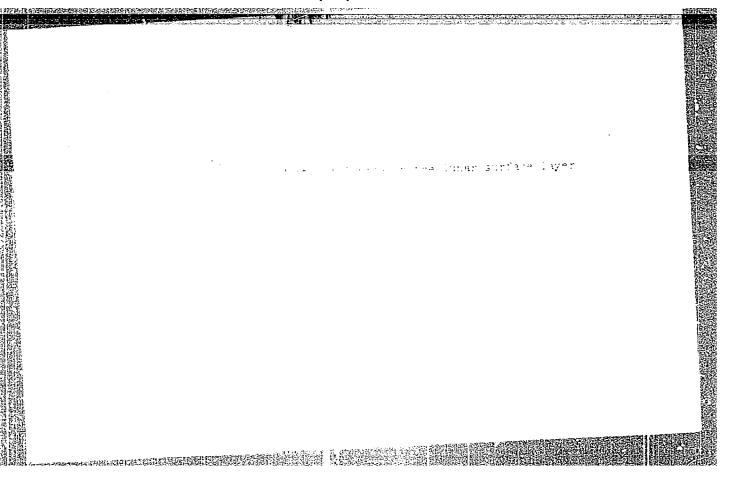
1. Nauchne-issledovatel'skiy radiofizioheskiy institut Gor'kovskogo gosudaratvennego universiteta.

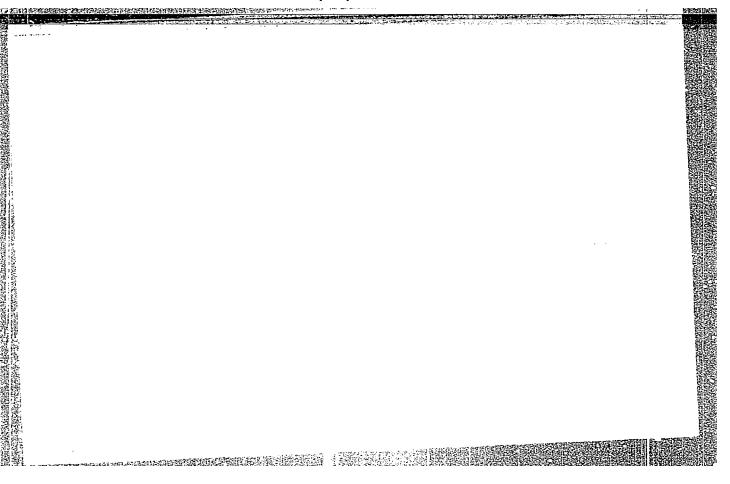


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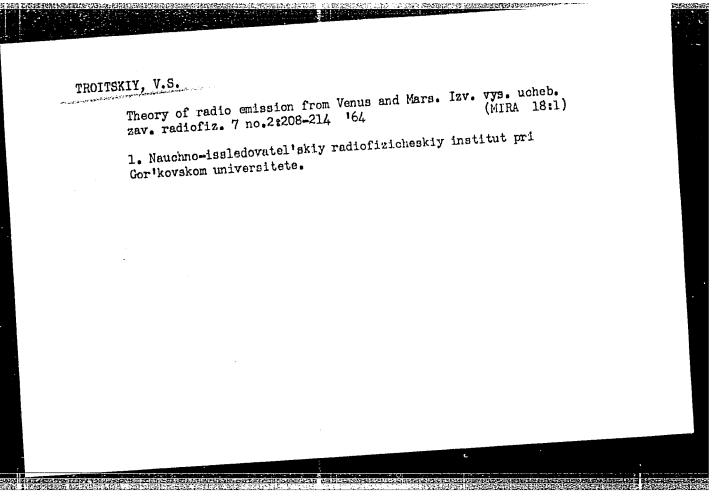
DMITRENKO, D.A.; KROTIKOV, V.D.; TROITSKIY, V.S.; TSEYTLIN, N.M.

Atmospheric absorption of radio emission at a wavelength of 70.16 cm.

Izv. vys. ucheb. zav.; radiofiz. 7 no.5:817-821 '64.

[MIRA 18:2)

1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Cor'kov-skom universitete.



ZAKHAROV, A.V.; KROTIKOV, V.D.; TROITSKIY, V.S.; TSEYTLIN, N.M.

Results of intensity measurements of the radio emission from discrete sources, the moon, and Jupiter at a wavelength of 70.16 cm. Izv. vys. ucheb. zav.; radiofiz. 7 no.3:553-555 (MIRA 17:11)

1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete.

TROITSKIY, V. S.

TROITSKIY, V. S.: "A comparative investigation of tender tires made of ordinary and high-carbon steel." Min Railways USSR. All-Union Sci Res Inst of Railroad Transport. Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Science.)

Knizhnaya Letopis' No 32, 1956. Moscow.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720005-8"

Selection of steel qualities for wheel rims. Vest. TSBII MPS 16 no.4; 51-55 Je '57. (MIRA 10:8)

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ZEMISEV, V.N., inzh.; TROITSKIY, V.S., inzh.

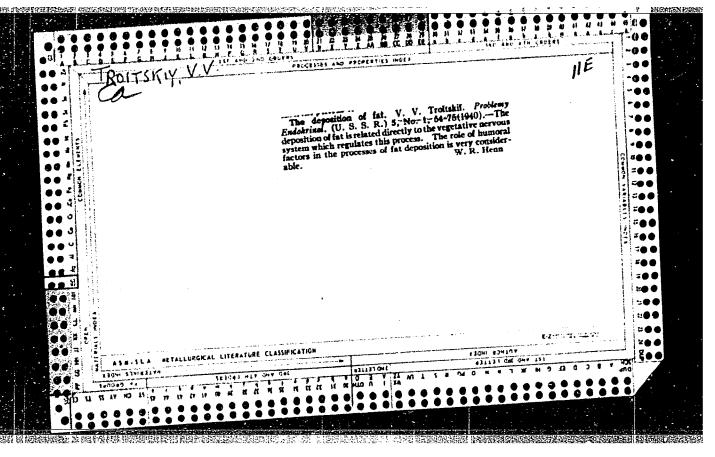
Rigid plumb bob for detecting the centers of hidden bench marks.

[Trudy] VNIMI no.45:325-328 162.

(Surveying instruments)

(Mine surveying)

(Mine surveying)



TROITSKIY, V.V., kand. tektn. mauk

Vibratory serew feeder for continuous tatching of loose materials.

Stroi. i dor. mash. 9 no.2:32-33 F '64.

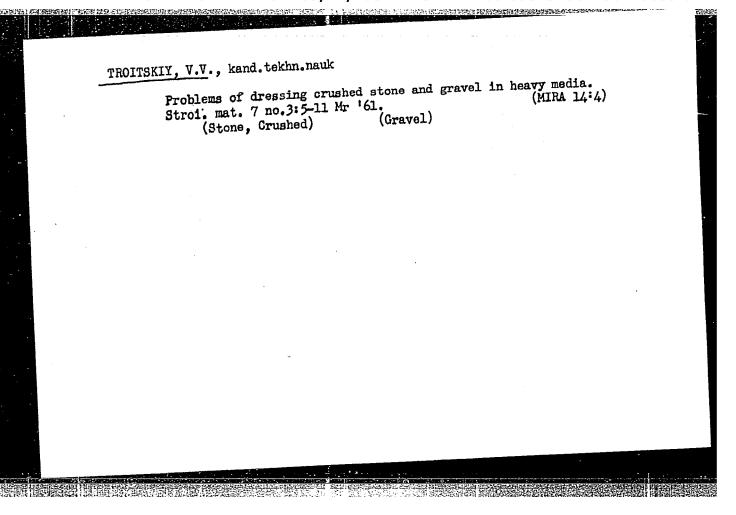
(MIRA 12:7)

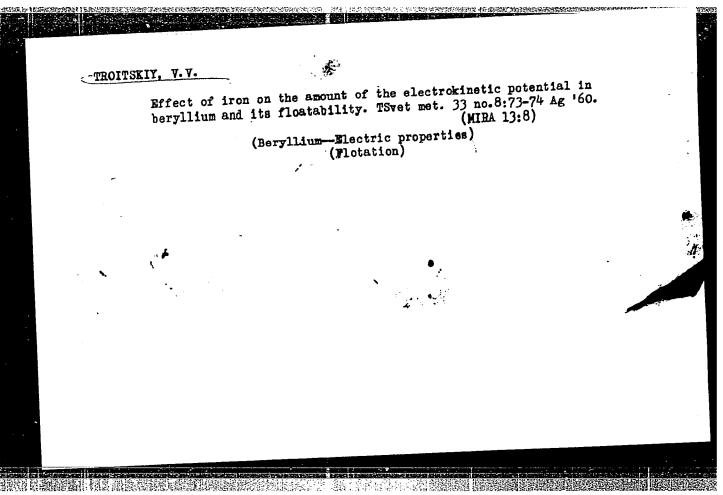
TROITSKIY, V.V., kand. tekhn. nauk; NESVETOV, V.V., inzh.

Investigating the operation of an electromagnetic hydrocyclone.

Gor. zhur. no.lls67-68 N '64. (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut stroitel'nogo
i dorozhnogo mashinostroyeniya, Moskva.





TROITSKIY, V. V.

TROTTSKIY, V. V.: "The problem of studying the flotability of sludge of certain mulfide ores." Moscow, 1955. Him Higher Education UNDE. Moscow Inst of Nonferrous Metals and Gold imeni. M. I. Kalinin. (Dissertation for the Degree of Candidate of Technical Sciences)

SO: Knizhnava Letopis' No. 47, 19 November 1955. Moscow.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720005-8"

TROITSKIY, V. V. - "Treatment of nerve ends during severance to prevent the development of end neuromas," In symposium: VIII Sessiya Neyrokhirurg. soveta i leningr. in-ta neyrokhirurgii, (Akad. sed. nauk GSSR), Moscow, 1948, p. 268-70

SO: U-3600, 10 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 6, 1949).

Ustroystvo ekspluatasiya. 1. remont. odnokovshovykh. ekskavatorov
(E 505, OM-20), E1004) (Uchebnik dlya tekhn shkol) M., transzheldoriz(E 505, Lyanov ekspluatasiya. 1. remont. odnokovshovykh. ekskavatorov
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TROITSKIY Viedinin Vesil'yevich; IVANOVA, M.N., inzhener, redaktor;

ILIPPO, V.V., inzhener, redaktor; YUDZON, D.M., tekhnicheskiy redaktor

[Design, operation and repair of single-shovel excavators (E-505, OM-201, E-1004)] Ustroistvo, ekspluatatsiia i remont odnokovshovykh ekskavatorov (E-505, OM-201, E-1004). Moskva, Gos. transp. zheldor. izd-vo, 1954. 436 p. [Microfilm] (MIRA 8:3)

(Excavating machinery)

SVIRIDOV, D.T.; SMIRNOV, Yu.F.; TROITSKIY, V.Ye.

Problem of d electron configurations in a crystal field. Configuration d² and d⁸ in a cubic field. Kristallografiia 9 no.6:807- (MIRA 18:2) 815 N-D *64.

1. Institut kristallografii AN SSSR i Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

TROITSKIY, Ye.A., dotsent, kandidat tekhnicheskikh nauk

Investigation of the performance of reinforcement bars for preInvestigation of the performance structures subjected to a pulsating
stressed reinforced concrete structures subjected to a pulsating
(MIRA 8:11)

(Reinforced concrete)

SOV/124-58 4-4714

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr4, p148 (USSR)

AUTHOR:

Troitskiy, Ye. A.

TITLE:

Experimental Investigation of the Functioning of an Experimental Bridge Girder and Operational Bridge span Structures of Prestressed Concrete With Strong Reinforcement Bundles (Eksperimental nyye issledovaniya raboty opytroy mostovoy balki i ekspluatiruyemykh mostovykh proletnykh stroyeniv iz predvaritel'no napryazhennogo zhelezobetona s moshchnymi armaturnym; puchkami)

PERIODICAL: Tr. Vses. n.-i. in-ta transp. str-va, 1956, Nr 19, pp 299-332

ABSTRACT:

A prestressed reinforced-concrete bridge girder with a span of 23 meters was tested under static load until it failed. The experiments showed that the stresses are distributed over the cross section in the same way as if the beam were manufactured out of homogeneous elastic material the uniform consistency of which is not interrupted by cracks. Structural correction factors vary in the usual range of from 0.75 to 0.91. Dynamic experiments with the girders showed that span structures made of prestressed concrete exhibit increased rigidity and react with

Card 1/2

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Experimental Investigation of the Functioning (cont.)

practically no residual deformations; sibrations induced therein subside quickly. However, the author does not recommend lowering the dynamic coefficient as standardized for girders of ordinary reinforced concrete, since the favorable results of the dynamic tests are matched by a decrease of the mass of the prestressed concrete girders which affords an increase in the dynamic coefficient. Long-term observations of the reaction of prestressed concrete-span structures have led the author to the deduction that with a considerable initial compression of the concrete of from 0.55 to 0.85 of its ultimate compression strength the progression of plastic deformation under flexure continues for a long period. Although these deformations continue for over three years, they are not of substantial magnitude.

K. S. Zavrlyev

1. Bridges--Design 2. Girders--Test results 3. Reinforced concrete--Load distribution 4. Structures--Analysis 5. Mathematics

Card 2/2

Testing the vibration strength of reinforcing high-tensile wire

Testing the vibration strength of reinforcing high-tensile wire

burnles. Truly TSNIIS no. 37:109-132 '60. (MIRA 13:12)

(Reinforced concrete)

TROITSKIY, YE.A., dotsent, kandidat teknnicheskikh nauk

Investigation of the performance of prestressed reinforced concrete
structures with heavy duty reinforcements subjected to the action of
structures with heavy duty TSNIS no.3:94-145 '51. (MIRA 8:11)
a pulsating load. Trudy TSNIS no.3:94-145 '51.

(Reinforced concrete)

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TROITSKIY, Ye.A., kandidat tekhnicheskikh nauk, laureat Stalinskoy premii

Industrial production of precast reinforced concrete bridge spans.

Transp.stroi. 5 no.6:5-7 Ag:55.

(Bridges, Concrete)

(Bridges, Concrete)

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[Railroad bridge span structures of prestressed concrete] Proletnye stroeniia zheleznodorozhnykh mostov iz predvaritel'no napriazhennogo zhelezobetona. Moskva, Gos.transp. zhel-dor. izd-vo, 1955. 330 p. (MIRA 9:3)

(Bridges, Concrete)

TROITSKIY, Yevgeniy Aleksandrovich (js. U.)
661.3
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Proletnyye Stroyeniya Zheleznodorozhnykh Mostov Iz Predvaritel'no Napryazhennogo Zhelezobetona (Arch construction of railroad bridges from prestressed reinforced concrete, by) Ye. A. Troitskiy, N. N. Bogdanov (1) L. I. Iosilevskiy. Moskva, Transzheldorizdat, 1955.

330 p. Diagrs., Tablets.

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TROITSKIY, Ye.A., kandidat tekhnicheskikh nauk.

Experimental investigation of stress in an experimental bridge girder and bridge spans in use made of prestressed reinforced concrete with heavy reinforcement bundles. Trudy TSHIIS No.19: 299-332 '56. (MLBA 9:11) (Bridges, Concrete) (Girders) (Prestressed concrete)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720005-8"

GRIGOR'TEV, D.A., kandidat tekhnicheskikh nauk; TROITSKIT, Ye.A., kandidat tekhnicheskikh nauk, laureat Stalinskey presii.

Precast thin wall prestressed bridge span structures with stressed clamps. Bet.i nhel.-bet. nc.3:106-109 Je '55. (MIRA 9:1) (Bridge construction) (Cencrete, Prestressed)

THOITSKIY, Ye.A., Laureat Stalinskoy premii, kandidat tekhnicheskikh nauk

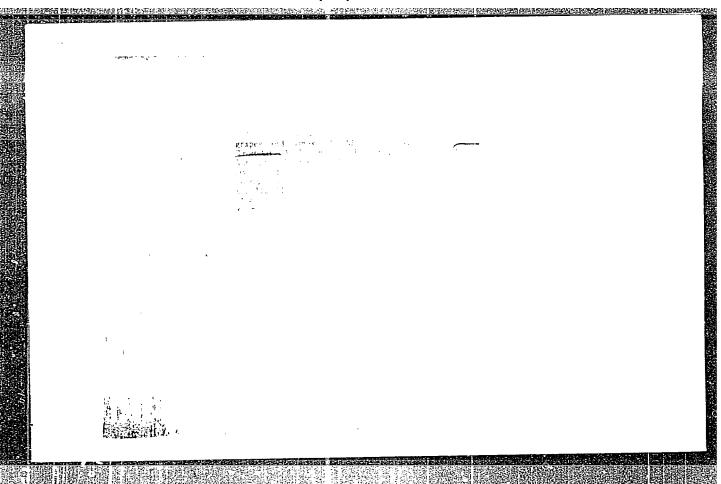
Experience in using precast prestressed concrete elements in bridge construction, Bet, i zhel.-bet. no.2:49-52 My '55. (MIRA 8:9)

(Bridges, Concrete)

TROITSKIY, Ye.A., kand.tekhn.nauk

Girder-cantilever precast reinforced concrete bridge.
Bet.i zhel.-bet. 8 no.10:445-448 0 '62. (MIRA 15:11)
(Bridge construction)

Fundamental aspects of the study of trace elements in the soil plant system. Vest. Mosk. un. Ser. 6: Biol., pochv. 15 no. 5:4856 S-0 '60. 1. Kafedra pochvovedeniya Moskovskogo universiteta. (Trace elements) (Biochemistry)



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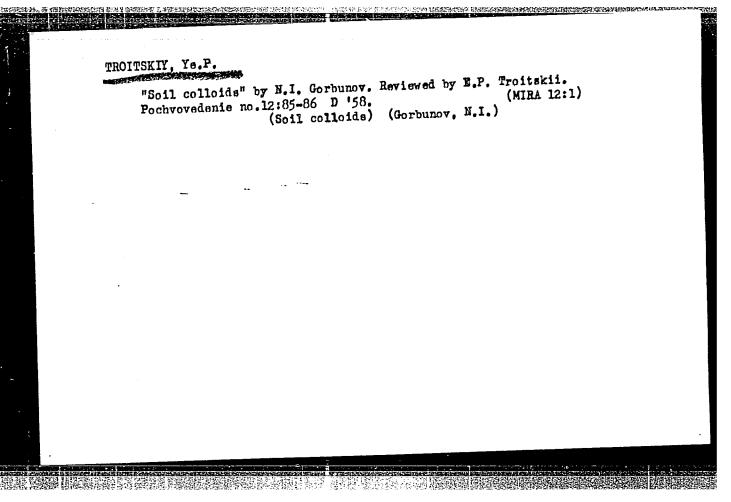
TROITSKIY, Ye., professor.

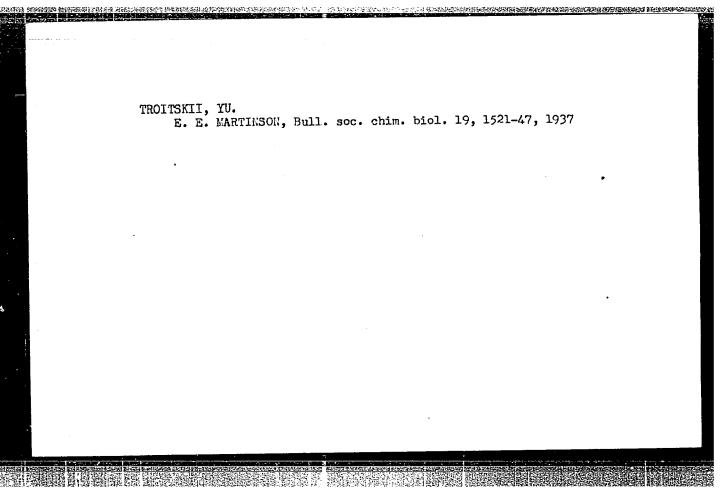
Popular science book on soil chemistry ("Soil chemistry." I.P.Serdobol'skii. Reviewed by E.P.Troitskii). Priroda 43 no.10:120-121 0 '54. (MIRA 7:10)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova (for Troitskiy)

(Soil chemistry) (Serdobol'skii, I.P.)

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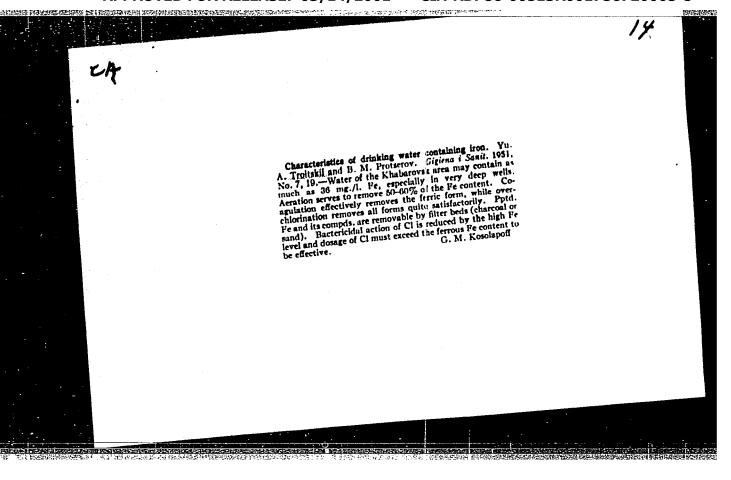


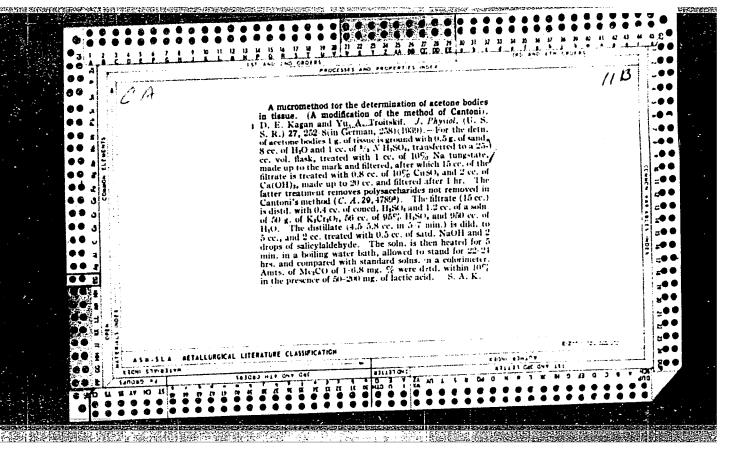


TRUITSKIY, YUA

"Case of Intoxication by Bread Prepared From Plour Infected With 'Intoxication Fungus' (Fusarium roseum)" by L. A. Velikov and Yu. A. Troitskiy, Sbornik Nauchnykh Trudov Kuybyshevskogo Instituta Epidemiologii, Mikrobiologii i Gigiyeny (Collection of Scientific Works of the Kuybyshev Institute of Epidemiology, Microbiology, and Hygiene) 1956, 2, 142-144 (from Sovetskoye Meditsinskoye Referativnoye Obozreniye, Zdravookhraneniye, Gigiyena i Sanitariya, Istoriya Meditsiny, Moscow, No 20, 1956, abstract by Ye. Vishnevskaya, p 76)

"A case of mass intoxication (49 persons) by bread prepared from flour infected with the 'intoxication fungus' is described. The bread consisted of a heavy, 'gluey,' poorly baked dough; it had a musty color and slightly bitter taste. An analysis of the flour disclosed that in addition to its organoleptic properties it was characterized by a low gluten content (to 10 percent), a diminished ability to ferment, an acidity two to three times higher than normal, a positive reaction to hydrogen sulfide and ammonia, and an increase in the number of free amino acids to 95 to 160 milligram percent (normal 30 to 40 milligram percent). An extract of the flour infected with the fungus produced an instant and highly intensive biuretic reaction. A pure culture of the fungus was successfully grown. All data pointed to the necessity for a broad and thorough method of inspection of flour infected with the 'intoxication fungus.' Symptoms of intoxication were headache, dizziness, nausea, vomiting, general weakness, and unstable locomotion. The symptoms were similar to those caused by alcohol intoxication." (U)





Operation of	kandidat tekhnicheskikh nauk flange rivets in bent beams. Trudy (Girders) (Rivets)	Trudy TSNIS no.16:145-191
		(MLRA 8:11)

YEFIMOV, V.V.; GONCHAROV, V.M.; FERANIDI, K.I.; TROITSKIY, Yu.L.

Hole boring by means of electric core drills with flushing in two Karaganda Basin mines. Ugol' 40 no.12:61-62 D'65.

(MIRA 18:12)

1. Karagandinskiy nauchno-issledovatel'skiy ugol'nyy institut.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720005-8"

VAYSENEERG, A. G.; TROITSKOY, V. A.; MIGULIN, V. V.

"Ekektroniks v Yadrenoi Fizike," (Electronics Exptl. Techniques), Edition of Foreign Lit., MOSCOW 1951.